

## **VEHICLES AND METHODS FOR SOIL COMPACTION AND LOADING**

### **ABSTRACT**

Vehicles and methods provide for a single vehicle that has both loading ability to  
5 grade and otherwise move dirt while also having the ability to compact soil. One or more  
compaction wheels are included on a vehicle such as a skid steer loader. Wiper bars are  
also included to clean circumferential grooves defined by compaction studs located about  
the periphery of the compaction wheels. The compaction studs have a substantially flat  
ground-contacting surface with a surface area significantly smaller than the typical  
10 contact area of a tire, which results in increased pressure to provide for soil compaction.  
A loader bucket of the vehicle may be elevated to various heights to alter the weight  
distribution applied to the compaction wheels and/or may be filled with material such as  
dirt to control the overall vehicle weight applied to the compaction wheels.